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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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### Complete if Known

Application Number	10/057,826
Filing Date	January 24, 2002
First Named Inventor	Tucker, Charles E.
Group Art Unit	1621
Examiner Name	Unassigned

Attorney Docket Number 021153-001400US

### OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
✓ AG	Cao, P., et al., "Ru-BICP-Catalyzed Asymmetric Hydrogenation of Aromatic Ketones," <u>J. Org. Chem.</u> , 64:2127-2129 (1999).		
✓ AH	Doucet, H., et al., "trans-[RuCl <sub>2</sub> (phosphane) <sub>2</sub> (1,2-diamine)] and Chiral trans-/RuCl <sub>2</sub> (diphosphane)(1,2-diamine): Shelf-Stable Precatalysts for the Rapid, Productive, and Stereoselective Hydrogenation of Ketones," <u>Angew. Chem. Int. Ed.</u> , 37(12):1703-1707. (1998)		
✓ AI	Grey, et al., "Symposium on Homogeneous Catalysis Presented Before the Division of Petroleum Chemistry, Inc." Am. Chem Soc., "Novel Anionic Phosphine Transition Metal Hydride Complexes and their Application to the Catalytic Hydrogenation of Polar Organic Compounds," 399-403 (1980).		
✓ AJ	Hartmann, R., et al., "Noyori's Hydrogenation Catalyst Needs a Lewis acid Cocatalyst for High Activity," <u>Angew. Chem. Int. Ed.</u> , 40(19):3581-3585 (2001).		
✓ AK	Hashiguchi, S., et al., "Asymmetric Transfer Hydrogenation of Aromatic Ketones Catalyzed by Chiral Ruthenium (II) Complexes," <u>J. Am. Soc.</u> , 117:7652-7563 (1995).		
✓ AL	Jiang, Y., et al., "A New Chiral Bis(oxazolinylmethyl)amine Ligand for Ru-Catalyzed Asymmetric Transfer Hydrogenation of Ketones," <u>J. Am. Chem. Soc.</u> , 120:3817-3818 (1998).		
✓ AM	Lauhon T., et al., "RNA Aptamers that Bind Flavin and Nicotinamide Redox Cofactors," <u>J. Am. Chem. Soc.</u> , 117(4):1246-1257 (1995).		
✓ AN	Matsumura, K., et al., "Asymmetric Transfer Hydrogenation of α, β-Acetylenic Ketones," <u>J. Am. Chem. Soc.</u> , 119:8738-8739 (1997).		
✓ AO	Mikami, K. et al., "Asymmetric Activation/Deactivation of Racemic Ru Catalysts for Highly Enantioselective Hydrogenation of Ketonic Substrates," <u>Angew. Chem. Int. Ed.</u> , 39(20):3707-3710 (2000).		
✓ AP	Noyori, R., et al., "Asymmetric Catalysis by Architectural and Functional Molecular Engineering: Practical Chemo- and Stereoselective Hydrogenation of Ketones," <u>Angew. Chem. Int. Ed.</u> , 40:40-73 (2001).		
✓ AQ	Noyori, R., "Asymmetric Hydrogenation," <u>Acta Chem. Scandinavia</u> , 50:380-390 (1996).		
✓ AR	Ohkuma, T., et al., "Asymmetric Activation of Racemic Ruthenium (II) Complexes for Enantioselective Hydrogenation," <u>J. Am. Chem. Soc.</u> , 120:1086-1087 (1998).		
✓ AS	Ohkuma, T., et al., "Practical Enantioselective Hydrogenation of Aromatic Ketones," <u>J. Am. Chem. Soc.</u> , 117:2675-2676 (1995).		
✓ AT	Ohkuma T., et al., "Asymmetric Hydrogenation of Alkenyl, Cyclopropyl, and Aryl Ketones. RuCl <sub>2</sub> (xylylnap)(1,2-diamine) as a Precatalyst Exhibiting a Wide Scope," <u>J. Am. Chem. Soc.</u> , 120:13529-13530 (1998).		
✓ AU	Ohkuma, T., et al., "Asymmetric Hydrogenation of Cyclic α, β-Unsaturated Ketones to Chiral Allylic Alcohols," <u>SYNLETT</u> , 467-468 (1997).		

Examiner Signature	<i>Ch</i>	Date Considered	2/11/03
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Filing Date	January 24, 2002
First Named Inventor	Tucker, Charles E.
Group Art Unit	1621
Examiner Name	Unassigned
Attorney Docket Number	021153-001400US

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CR	AV	Ohkuma, T., et al., "General Asymmetric Hydrogenation of Hetero-aromatic Ketones," <u>Organic Letters</u> , 2(12):1749-1751 (2000).	
	AW	Ohkuma, T., et al., "Practical Enantioselective Hydrogenation of Aromatic Ketones," <u>J. Am. Chem. Soc.</u> , 117:2675-2676 (1995).	
	AX	Ohkuma, T., et al., "Preferential Hydrogenation of Aldehydes and Ketones," <u>J. Am. Chem. Soc.</u> , 117:10417-10418 (1995).	
	AY	Ohkuma, T., et al., "Stereoselective Hydrogenation of Simple Ketones Catalyzed by Ruthenium (II) Complexes," <u>J. Org. Chem.</u> , 61:4872-4873 (1996).	
	AZ	Püntener, K., et al., "New Efficient Catalysts for Enantioselective Transfer Hydrogenations," <u>Tetrahedron Letters</u> , 37(45):8165-8168 (1996).	
	BA	R. A. Sánchez-Delgado, et al., "Chemistry and Catalytic Properties of Ruthenium and Osmium Complexes. 3. Development of Highly Active Systems for the Homogeneous Hydrogenation of Aldehydes and Ketones," <u>Inorg. Chem.</u> , 25:1106-1111 (1986).	
	BB	R.A. Sánchez-Delgado, et al., "Homogeneous Hydrogenation of Ketones to Alcohols with Ruthenium complex Catalysts," 202:427-434 (1980).	
	BC	R.A. Sánchez-Delgado, et al., "Homogeneous Hydrogenation of Aldehydes and Ketones by Use of Ruthenium Triphenylphosphine Complexes," <u>J. Mol. Catalysis</u> , 6:303-305 (1979).	
	BD	Sammakia, T., et al., "Transfer Hydrogenation with Ruthenium Complexes of Chiral (Phosphinoferrocenyl)oxazolines," <u>J. Org. Chem.</u> , 62:6104-6105 (1997).	
	BE	Sammakia, T., et al., "Transfer Hydrogenation with Ruthenium Complexes of Chiral (Phosphinoferrocenyl)oxazolines," <u>J. Org. Chem.</u> , 62:6104-6105 (1997).	
	BF	Takehara, J., et al., "Amino alcohol on the ruthenium (II)-catalysed asymmetric transfer hydrogenation of ketones in propan-2-ol," <u>Chem. Commun.</u> , 233-234 (1996).	
CR	BG	Yang, H., et al., "Ruthenium(II) Complexes with New Tridentate Ligands containing P, N, O Donor Atoms: Highly Efficient Catalysts for Transfer Hydrogenation of Ketones by Propan-2-ol," <u>J. Chem. Soc., Chem. Commun.</u> , 1721-1722 (1995).	

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First Named Inventor	Tucker, Charles E.
Group Art Unit	1621
Examiner Name	Unassigned
Attorney Docket Number	021153-001400US

## U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>2</sup> (if known)			
cc	AA	4,321,414		Costa	03/23/1982	
	AB	5,716,961		Sands	02/10/1998	
	AC	5,763,688		Ikariya et al.	06/09/1998	
	AD	Pub. No.: US 2002/0016465	A1	Walinsky et al.	04/23/2001	
cc	AE	Pub. No.: US 2002/0016466	A1	Walinsky et al.	04/23/2001	

## FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
cc	AF	EP	0 901 977	A1	Noyer et al.	03/17/1999		

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